

Understanding Gancer

A SERIES OF SIMPLE EDUCATIONAL VIDEOS FOR THE GENERAL PUBLIC

Part 6: What is clinical research?

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What do you think clinical research is?

What is RESEARCH?



When researching for something...
you need to have an idea of what you looking for...

Research is the ability to explore what might happen based on current understanding, look at data and report findings.

RESEARCH

What are clinical trials?

Research studies that involve people.



Two types of clinical trials:

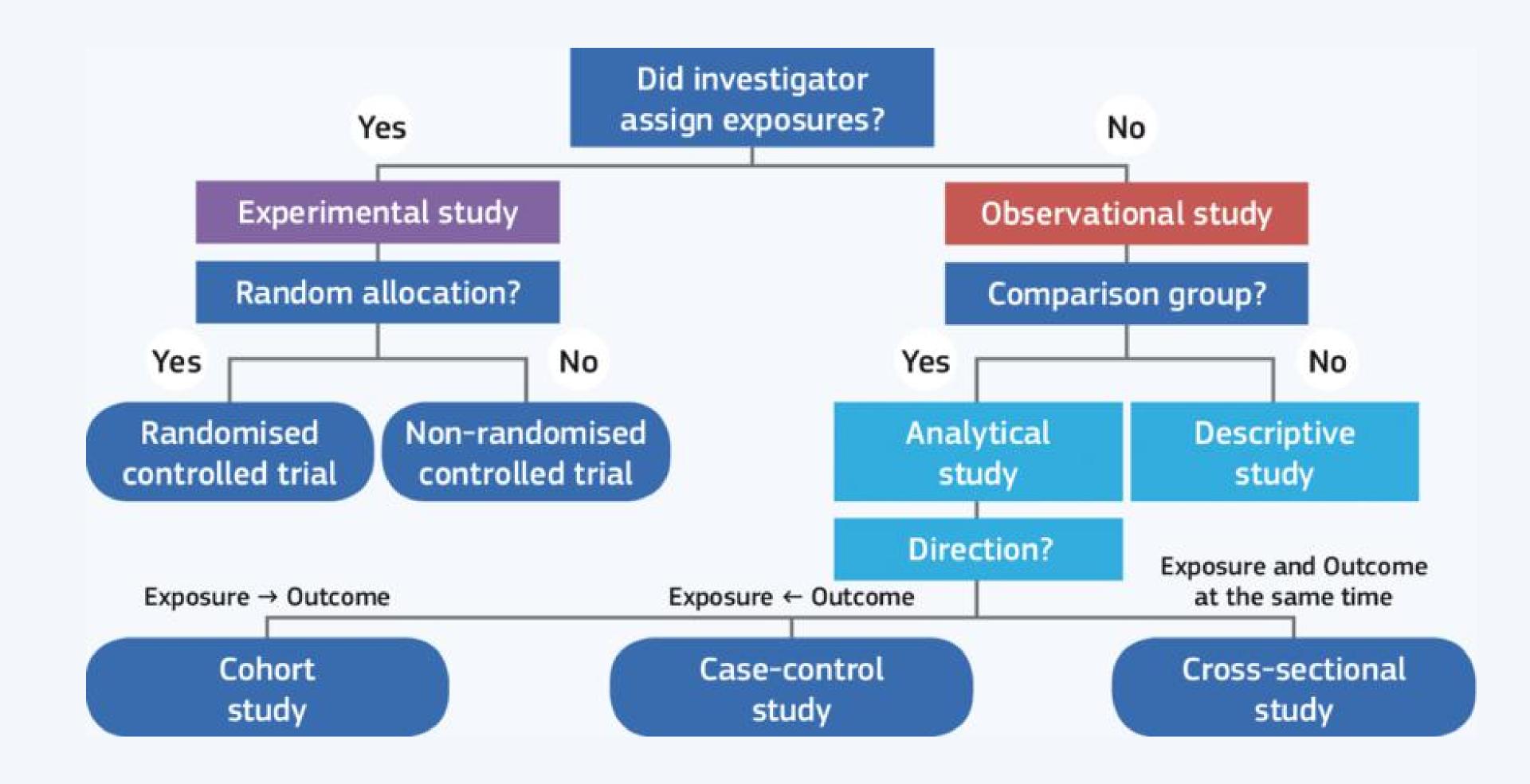
Interventional trials

It aims to find out more about a specific intervention or type of treatment.

Theyre placed in groups to compare results.

Observational studies

It aims to find out about what happens to people in different situations. They are not added to treatment groups.



Feasibility study

Aims to find out whether patients and doctors are happy to take part in the study and discuss collected information

Pilot study

Aims to test all parts of the study and may help answer the research question.

Pilot and feasibility studies are small studies done before a large clinical trial takes place.

EVERY CLINICAL TRIAL requires approval for

ethics.

Values?

Is it right or wrong?

Is it beneficial?



Why do we need clinical trials?

Why do we need clinical trials?

To look for new ways on how disease can be:

TREATED.

PREVENTED.

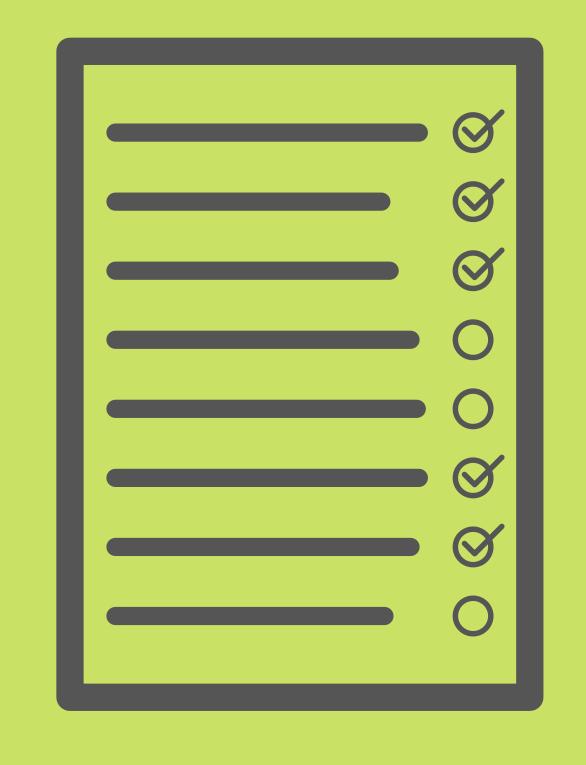
RELIEVE SYMPTOMS

BETTER UNDERSTANDING OF THE DISEASE

The Participant.

Before enrolling onto the study, they will get a:

Interview
Participation Information sheet
Consent form
Agreement



They can be a healthy volunteer or a patient

Two stages in a clinical trial:

PRE-CLINICAL STUDY CLINICAL STUDY



What happens in a pre-clinical study?

Using models, the aim is to see if there are any side effects and find out the level of efficacy.

Efficacy is the maximum ability of a drug to produce a result despite the dose.

What happens in a pre-clinical study?

In a laboratory, cells, tissues, rodents and other animal are used as models for experiments.

Computer models.



What happens in a pre-clinical study?



Many fail because they damage cells or do not work well.

What happens in the clinical testing?

This may involve animals and humans...

Animals

- In the UK, it is illegal to test tobacco and make-up products on animals.
- A known amount is given to animals before monitoring them for sideeffects.

What happens in the clinical testing? Humans

A healthy volunteer is recruited to determine whether the medication is:

Safe? Effective?

What happens in the clinical testing?

testing Humans

A low dose is given before increasing it to the aimed dose.

Once passed, the medication is then given to patients with the disease.

Factors that affect clinical trials:

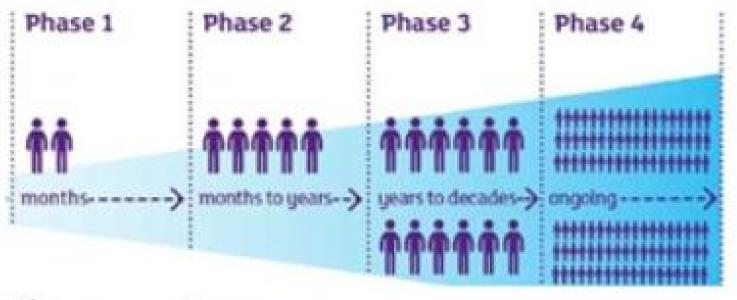
Safety

Effectiveness

Correct Dose



What are the phases?



Source: The Hillingdon Hospitals NHS Foundation Trust (2021)

Phase	Purpose
I	Testing an experimental drug in small group of people (approx. 20-100) to evaluate safety, possible side effects, and to determine drug use and delivery.
II	Assessment of the safety and efficacy of an experimental treatment in more people than in Phase I (approx. 100-300).
III	A comparison of the experimental drug against a placebo or standard treatment to evaluate safety, efficacy and effectiveness in patients with specific diseases (approx. 300 - 3000).
IV	After approval has been given, the drug's effectiveness and safety in monitored by public use.

Without research, progress cannot be made in understanding cancer and help improve techniques and treatment.

A number of cancer charities, research councils, hospitals, pharmaceutical companies and universities are heavily involved in research in cancer and other diseases.



Scientists identify 'hugely exciting' new drugs that could lead to cancer treatments

Scientists at the Institute of Cancer Research and pharmaceutical company Artios have identified a new class of medicine that could lead to treatments of even drug-resistant cancers, Joanna Taylor reports

Thursday 17 June 2021 16:00 | comments











Breast cancer

More detailed MRI to detect early breast cancer begins UK trials

Exclusive: multiparametric MRI designed to be more comfortable and effective in early detection

 New breast cancer scan is designed with women's comfort in mind

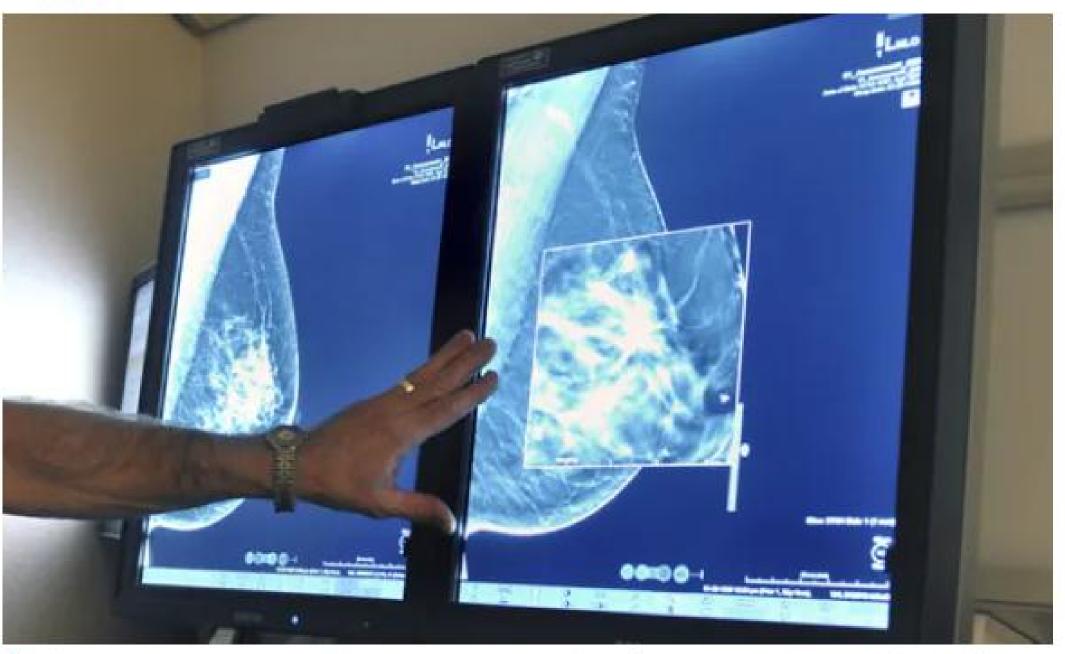
Linda Geddes Science correspondent

Fri 9 Jul 2021 12.29 BST









▲ A doctor examines a mammogram image. Mammograms are less effective in younger women with more fibrous breast tissue. Photograph: Torin Halsey/AP

A new more comfortable way of detecting breast cancer, which could enable



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News and Views

Matt Hobbs: five research breakthroughs

Treatments

08 Jul 2021

Dr Matthew Hobbs: five breakthroughs that could change the way we diagnose and treat prostate cancer.

Our Director of Research reflects on exciting research news - from a new way to target cancer cells to the permanent approval of a life-extending drug.











Scientists developing urine and blood tests to detect brain tumours





Category News High July 23, 2021 Lancer Research UK Q 0 comments 0 4 minute read







First treatment approved in England for advanced bile duct cancer



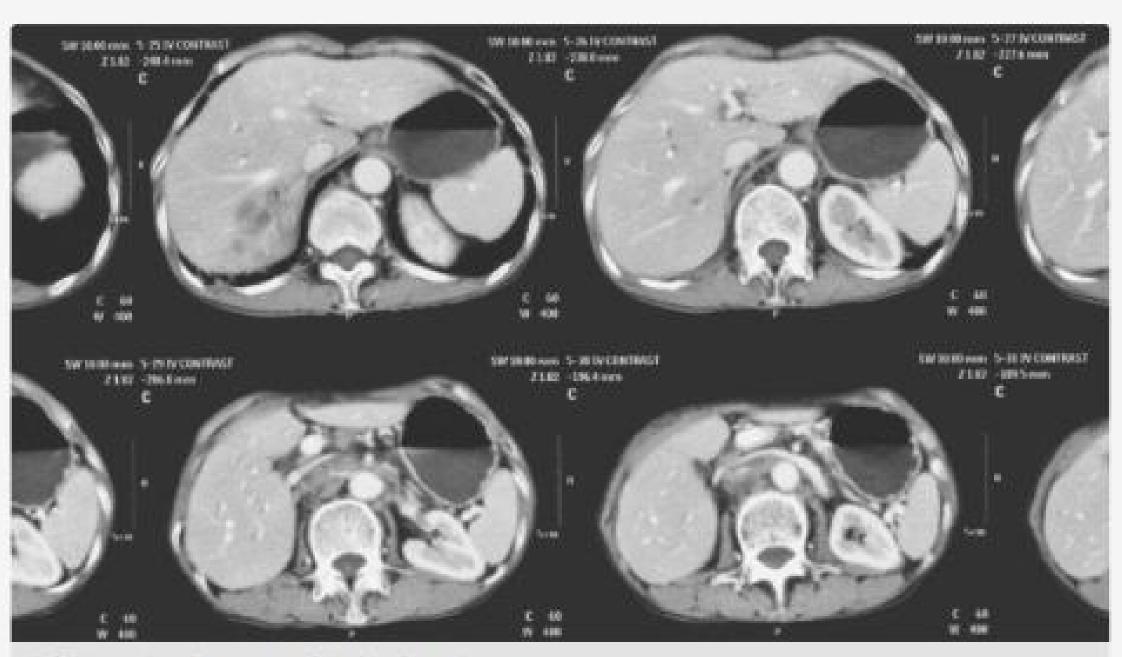


Category: News July 22, 2021 _ Cancer Research UK O 0 comments





3 minute read



A CT scan showing a case of cholangiocarcinoma

The drug pemigatinib (Pemazyre) will now be an option for people with a rare type of bile duct

annear that has continued to advance or appead affect letted absenuthances.

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Science

Drug may help more women survive hereditary breast cancer

International trials of olaparib were stopped early as benefits of 'groundbreaking' drug became clear

Sarah Boseley Health editor













Together, we can help make a research difference.



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Part 7: Diagnosis - Physical examination
UPCOMING VIDEO RELEASING SOON!

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Acknowledgements

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